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1 Software unit test coverage and adequacy
Hong Zhu, Patrick A. V. Hall, John H. R. May
December 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(477.42 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Objective measurement of test quality is one of the key issues in software testing. It has been a major research focus for the last two decades. Many test criteria have been proposed and studied for this purpose. Various kinds of rationales have been presented in support of one criterion or another. We survey the research work in this area. The notion of adequacy criteria is examined together with its role in software dynamic testing. A review of criteria classification is followed by a sum ...

Keywords: comparing testing effectiveness, fault detection, software unit test, test adequacy criteria, test coverage, testing methods

2 Modelling: Model exploration with temporal logic query checking
Arie Gurfinkel, Benet Devereux, Marsha Chechik
November 2002 **Proceedings of the 10th ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '02/FSE-10**
Publisher: ACM Press
Full text available: pdf(152.31 KB) Additional Information: full citation, abstract, references, citings, index terms

A temporal logic query is a temporal logic formula with placeholders. Given a model, a solution to a query is a set of assignments of propositional formulas to placeholders, such that replacing the placeholders with any of these assignments results in a temporal logic formula that holds in the model. Query checking, first introduced by William Chan \citechan00, is an automated technique for finding solutions to temporal logic queries. It allows discovery of the temporal properties of the system ...

Keywords: CTL, multi-valued model-checking, query-checking

3 Session 8: modelling: Model exploration with temporal logic query checking
Arie Gurfinkel, Benet Devereux, Marsha Chechik
November 2002

ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 6
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

A temporal logic query is a temporal logic formula with placeholders. Given a model, a solution to a query is a set of assignments of propositional formulas to placeholders, such that replacing the placeholders with any of these assignments results in a temporal logic formula that holds in the model. Query checking, first introduced by William Chan [2], is an automated technique for finding solutions to temporal logic queries. It allows discovery of the temporal properties of the system and as s ...

Keywords: CTL, multi-valued model-checking, query-checking

4 Session 1: Random testing of formal software models and induced coverage
David Owen, Dejan Desovski, Bojan Cukic
July 2006 **Proceedings of the 1st international workshop on Random testing RT '06**
Publisher: ACM Press
Full text available: pdf(324.24 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a methodology for random testing of software models. Random testing tools can be used very effectively early in the modeling process, e.g., while writing formal requirements specification for a given system. In this phase users cannot know whether a correct operational model is being built or whether the properties that the model must satisfy are correctly identified and stated. So it is very useful to have tools to quickly identify errors in the operational model or in the p ...

Keywords: formal methods, model testing, random testing

5 Integrating automated test generation into the WYSIWYT spreadsheet testing methodology
Marc Fisher, Gregg Rothermel, Darren Brown, Mingming Cao, Curtis Cook, Margaret Burnett
April 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 2
Publisher: ACM Press
Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, index terms

Spreadsheet languages, which include commercial spreadsheets and various research systems, have had a substantial impact on end-user computing. Research shows, however, that spreadsheets often contain faults. Thus, in previous work we presented a methodology that helps spreadsheet users test their spreadsheet formulas. Our empirical studies have shown that end users can use this methodology to test spreadsheets more adequately and efficiently; however, the process of generating test cases can st ...

Keywords: End-user software engineering, end-user programming, test case generation, testing

6 Faults on its sleeve: amplifying software reliability testing
Dick Hamlet, Jeff Voas
July 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1993 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '93**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

Most of the effort that goes into improving the quality of software paradoxically does not lead to quantitative, measurable quality. Software developers and quality-assurance organizations spend a great deal of effort preventing, detecting, and removing "defects"—parts of software responsible for operational failure. But software quality can be measured only by statistical parameters like hazard rate and mean time to failure, measures whose connection with defects and with ...

Keywords: failure, fault, software reliability, testability

7 A structured laboratory component for the introductory programming course

Darrah Chavey, Beloit College

March 1991 **ACM SIGCSE Bulletin , Proceedings of the twenty-second SIGCSE technical symposium on Computer science education SIGCSE '91**, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(906.41 KB) Additional Information: full citation, references, citings, index terms

8 Testing: On automatic generation of RTL validation test benches using circuit testing techniques

Indradeep Ghosh, Srivaths Ravi

April 2003 **Proceedings of the 13th ACM Great Lakes symposium on VLSI GLSVLSI '03**

Publisher: ACM Press

Full text available: pdf(145.00 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we examine how good validation test benches can be automatically generated starting from the RTL description of a circuit. We develop our methodology based on extensive experiments performed with several popular benchmarks as well as industrial circuits.

Keywords: ATPG, OCCOM, RTL ATPG, RTL testing, branch coverage, code coverage, coverage metrics, design validation, fault coverage, generation, path coverage, small validation, test, test sets, testbench, testing, toggle coverage, universal test sets

9 Validation of Scientific Programs

William E. Howden

June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(2.92 MB) Additional Information: full citation, references, citings, index terms

10 Distributed cooperation with action systems

R. J. R. Back, F. Kurki-Suonio

October 1988 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(3.43 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Action systems provide a method to program distributed systems that emphasizes the overall behavior of the system. System behavior is described in terms of the possible interactions (actions) that the processes can engage in; rather than in terms of the sequential code that the processes execute. The actions provide a symmetric

communication mechanism that permits an arbitrary number of processes to be synchronized by a common handshake. This is a generalization of the usual approach, emplo ...

11 Edge locks and deadlock avoidance in distributed systems

Henry F. Korth
August 1982 **Proceedings of the first ACM SIGACT-SIGOPS symposium on Principles of distributed computing PODC '82**
Publisher: ACM Press

Full text available: pdf(923.82 KB) Additional Information: full citation, abstract, references, citings, index terms

Two locking protocols are defined for distributed database systems. One protocol provides deadlock avoidance without the need to roll back transactions. The other allows a useful weakening of the protocol in which only a limited class of easily handled deadlocks may occur. The protocols are capable of handling replicated as well as partitioned data. Like the centralized protocol on which they are based, the protocol of this paper permits locking at multiple granularities and allows collecti ...

12 High quality behavioral verification using statistical stopping criteria

A. Hajjar, T. Chen, I. Munn, A. Andrews, M. Bjorkman
March 2001 **Proceedings of the conference on Design, automation and test in Europe DATE '01**
Publisher: IEEE Press
Full text available: pdf(143.66 KB) Additional Information: full citation, references, citings, index terms

Keywords: VHDL, behavioral model verification, statistical stopping rules

13 From simulink to SCADE/lustre to TTA: a layered approach for distributed embedded applications

Paul Caspi, Adrian Curic, Aude Maignan, Christos Sofronis, Stavros Tripakis, Peter Niebert
June 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems LCTES '03**, Volume 38 Issue 7
Publisher: ACM Press

Full text available: pdf(243.55 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a layered end-to-end approach for the design and implementation of embedded software on a distributed platform. The approach comprises a high-level modeling and simulation layer (Simulink), a middle-level programming and validation layer (SCADE/Lustre) and a low-level execution layer (TTA). We provide algorithms and tools to pass from one layer to the next. First, a translator from Simulink to Lustre. Second, a set of real-time and code-distribution extensions to Lustre. Third, implem ...

Keywords: code distribution, embedded software, lustre, scheduling, simulink, synchronous languages

14 Automatic data layout for distributed-memory machines

Ken Kennedy, Ulrich Kremer
July 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(633.20 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The goal of languages like Fortran D or High Performance Fortran (HPF) is to provide a simple yet efficient machine-independent parallel programming model. After the algorithm selection, the data layout choice is the key intellectual challenge in writing an efficient program in such languages. The performance of a data layout depends on the target compilation system, the target machine, the problem size, and the number of available processors. This makes the choice of a good layout extremel ...

Keywords: high performance Fortran

15 Mobility: Architectural primitives for distribution and mobility

Antónia Lopes, José Luiz Fiadeiro, Michel Wermelinger

November 2002 **Proceedings of the 10th ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '02/FSE-10**

Publisher: ACM Press

Full text available: pdf(138.18 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we address the integration of a distribution dimension in an architectural approach to system development and evolution based on the separation between coordination and computation. This third dimension allows us to separate key concerns raised by mobility, thus contributing to our ability to handle the complexity that is inherent to systems required to operate in "Internet time and space".

Keywords: coordination, mobility, software architectures

16 Access control technology: On classifying access control implementations for distributed systems

Kevin Kane, James C. Browne

June 2006 **Proceedings of the eleventh ACM symposium on Access control models and technologies SACMAT '06**

Publisher: ACM Press

Full text available: pdf(210.74 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a classification of implementations of access control systems based on a lattice taxonomy where the axes are properties of the implementation. The current taxonomy has six axes representing:partitioning of control over sharing of access control credentials, distribution of the state relevant to access control decisions,.delity of policy enforcement, the identity resolution mechanism, local versus centralized decisions,and static or adaptive trust management.Analysis of implem ...

Keywords: access control, analysis, classification, distributed systems, taxonomies

17 Communication optimization and code generation for distributed memory machines

Saman P. Amarasinghe, Monica S. Lam

June 1993 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1993 conference on Programming language design and implementation PLDI '93**, Volume 28 Issue 6

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents several algorithms to solve code generation and optimization problems

specific to machines with distributed address spaces. Given a description of how the computation is to be partitioned across the processors in a machine, our algorithms produce an SPMD (single program multiple data) program to be run on each processor. Our compiler generated the necessary receive and send instructions, optimizes the communication by eliminating redundant communication and aggregating s ...

18 A formal protection model of security in centralized, parallel, and distributed systems

Glenn S. Benson, Ian F. Akyildiz, William F. Appelbe
August 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 3
Publisher: ACM Press

Full text available: pdf(2.17 MB) Additional Information: full citation, abstract, references, citings, index terms, review

One way to show that a system is not secure is to demonstrate that a malicious or mistake-prone user or program can break security by causing the system to reach a nonsecure state. A fundamental aspect of a security model is a proof that validates that every state reachable from a secure initial state is secure. A sequential security model assumes that every command that acts as a state transition executes sequentially, while a concurrent security model assumes that multiple commands execut ...

Keywords: access control, concurrency control, distributed system security, operating system security, protection model

19 Knowledge and common knowledge in a distributed environment

Joseph Y. Halpern, Yoram Moses
July 1990 **Journal of the ACM (JACM)**, Volume 37 Issue 3
Publisher: ACM Press

Full text available: pdf(3.69 MB) Additional Information: full citation, abstract, references, citings, index terms

Reasoning about knowledge seems to play a fundamental role in distributed systems. Indeed, such reasoning is a central part of the informal intuitive arguments used in the design of distributed protocols. Communication in a distributed system can be viewed as the act of transforming the system's state of knowledge. This paper presents a general framework for formalizing and reasoning about knowledge in distributed systems. It is shown that states of knowledge of groups of processors are use ...

20 Efficient logic variables for distributed computing

Seif Haridi, Peter Van Roy, Per Brand, Michael Mehl, Ralf Scheidhauer, Gert Smolka
May 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 3
Publisher: ACM Press

Full text available: pdf(572.35 KB) Additional Information: full citation, abstract, references, citings, index terms

We define a practical algorithm for distrubuted rational tree unification and prove its correctness in both the off-line and on-line cases. We derive the distributed algorithm from a centralized one, showing clearly the trade-offs between local and distributed execution. The algorithm is used to realize logic variables in the Mozart Programming System, which implements the Oz language (see http://www/mozart-oz.org). Oz appears to the programmer as a concurrent object-oriented language with ...

Keywords: Mozart, Oz, distributed algorithms

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1 Iterative conditional fitting for Gaussian ancestral graph models
Mathias Drton, Thomas S. Richardson
July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**
Publisher: AUAI Press
Full text available: pdf(324.53 KB) Additional Information: full citation, abstract, references

Ancestral graph models, introduced by Richardson and Spirtes (2002), generalize both Markov random fields and Bayesian networks to a class of graphs with a global Markov property that is closed under conditioning and marginalization. By design, ancestral graphs encode precisely the conditional independence structures that can arise from Bayesian networks with selection and unobserved (hidden/latent) variables. Thus, ancestral graph models provide a potentially very useful framework for explor ...

2 Approximate inference by Markov chains on union spaces
Max Welling, Michal Rosen-Zvi, Yee Whye Teh
July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**
Publisher: ACM Press
Full text available: pdf(356.93 KB) Additional Information: full citation, abstract, references

A standard method for approximating averages in probabilistic models is to construct a Markov chain in the product space of the random variables with the desired equilibrium distribution. Since the number of configurations in this space grows exponentially with the number of random variables we often need to represent the distribution with samples. In this paper we show that if one is interested in averages over single variables only, an alternative Markov chain defined on the much smaller "unio ...

3 Graphical interactive simulation input modeling with bivariate Bézier distributions
Mary Ann Flanigan Wagner, James R. Wilson
July 1995 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

A graphical interactive technique for modeling bivariate simulation inputs is based on a family of continuous univariate and bivariate probability distributions with bounded support that are described by Be´zier curves and surfaces, respectively. This family of

distributions has a natural, extensible parameterization so that all parameters have a meaningful interpretation; and the complete family is capable of accurately representing an unlimited variety of shapes for marginal distrib ...

Keywords: graphical interactive distribution fitting

4 Multimedia information retrieval: Modeling annotated data

David M. Blei, Michael I. Jordan

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of modeling annotated data---data with multiple types where the instance of one type (such as a caption) serves as a description of the other type (such as an image). We describe three hierarchical probabilistic mixture models which aim to describe such data, culminating in *correspondence latent Dirichlet allocation*, a latent variable model that is effective at modeling the joint distribution of both types and the conditional distribution of the annotation given th ...

Keywords: automatic image annotation, empirical Bayes, image retrieval, probabilistic graphical models, variational methods

5 Traffic characterization: Characterizing the query behavior in peer-to-peer file sharing systems

Alexander Klemm, Christoph Lindemann, Mary K. Vernon, Oliver P. Waldhorst

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement IMC '04**

Publisher: ACM Press

Full text available: pdf(525.94 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper characterizes the query behavior of peers in a peer-to-peer (P2P) file sharing system. In contrast to previous work, which provides various aggregate workload statistics, we characterize peer behavior in a form that can be used for constructing representative synthetic workloads for evaluating new P2P system designs. In particular, the analysis exposes heterogeneous behavior that occurs on different days, in different geographical regions (i. e., Asia, Europe, and North America) or ...

Keywords: overlay networks, peer-to-peer, synthetic workloads, workload characterization

6 Dependency networks for inference, collaborative filtering, and data visualization

David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie

September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available: pdf(337.07 KB) Additional Information: full citation, abstract, citings

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for

each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

7 Nearly optimal importance sampling for Monte Carlo simulation of loss systems

Pasi E. Lassila, Jorma T. Virtamo

October 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(201.73 KB) Additional Information: full citation, abstract, references, index terms, review

In this paper we consider the problem of estimating blocking probabili ties in the multiservice loss system via simulation, applying the static Monte Carlo method with importance sampling. Earlier approaches to this problem include the use of either a single exponentially twisted version of the steady state distribution of the system or a composite of individual exponentially twisted distributions. Here, a different approach is introduced, where the original estimation problem is first deco ...

Keywords: Monte Carlo methods, importance sampling, loss system, simulation, variance reduction

8 Joint and conditional estimation of tagging and parsing models

Mark Johnson

July 2001 **Proceedings of the 39th Annual Meeting on Association for Computational Linguistics ACL '01**

Publisher: Association for Computational Linguistics

Full text available: pdf(138.78 KB) Additional Information: full citation, abstract, references, citings

This paper compares two different ways of estimating statistical language models. Many statistical NLP tagging and parsing models are estimated by maximizing the (joint) likelihood of the fully-observed training data. However, since these applications only require the conditional probability distributions, these distributions can in principle be learnt by maximizing the conditional likelihood of the training data. Perhaps somewhat surprisingly, models estimated by maximizing the joint were super ...

9 Session 10B: Sublinear algorithms for testing monotone and unimodal distributions

Tugkan Batu, Ravi Kumar, Ronitt Rubinfeld

June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing STOC '04**

Publisher: ACM Press

Full text available: pdf(253.78 KB) Additional Information: full citation, abstract, references, citings, index terms

The complexity of testing properties of monotone and unimodal distributions, when given access only to samples of the distribution, is investigated. Two kinds of sublinear-time algorithms---those for testing monotonicity and those that take advantage of monotonicity---are provided. The first algorithm tests if a given distribution on [n] is monotone or far away from any monotone distribution in L1-norm; this algorithm uses O (√n) samples and is shown to be nearly optimal. The nex ...

Keywords: distribution testing, monotone and unimodal distributions, property testing, sublinear algorithms

10 Performance analysis of DS-CDMA with slotted ALOHA random access for packet PCNs

Zhao Liu, Magda El Zarki
February 1995 **Wireless Networks**, Volume 1 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In this paper, we present a discrete time Markov chain based analytical framework for the study of Direct-Sequence Code-Division-Multiple-Access (DS-CDMA) with slotted ALOHA random access protocols (DS-CDMA-S-ALOHA) for packet Personal Communications Networks (PCNs). It incorporates both the random access and the random errors associated with DS-CDMA-S-ALOHA protocols into a unified framework. The key feature is that it distinguishes between the two stages in the transmission process, namel ...

11 Advanced tutorials: input modeling: Dependence modeling for stochastic simulation
Bahar Biller, Soumyadip Ghosh
December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
Publisher: Winter Simulation Conference
Full text available: pdf(319.99 KB) Additional Information: full citation, abstract, references

An important step in designing stochastic simulation is modeling the uncertainty in the input environment of the system being studied. Obtaining a reasonable representation of this uncertainty can be challenging in the presence of dependencies in the input process. This tutorial attempts to provide a coherent narrative of the central principles that underlie methods that aim to model and sample a wide variety of dependent input processes.

12 Simulation I: Strongly efficient estimators for light-tailed sums
J. Blanchet, P. Glynn
October 2006 **Proceedings of the 1st international conference on Performance evaluation methodolgies and tools valuetools '06**
Publisher: ACM Press
Full text available: pdf(184.67 KB) Additional Information: full citation, abstract, references

Let $(Sn : n \geqslant 0)$ be a mean zero random walk (rw) with light-tailed increments. One of the most fundamental problems in rare-event simulation involves computing $P(Sn > n\beta)$ for $\beta > 0$ when n is large. It is well known that the optimal exponential tilting (OET), although logarithmically efficient, is not strongly efficient (the squared coefficient of variation of the estimator grows at rate $n^{1/2}$). Our analysis of the ze ...

Keywords: Dramer's theorem, Lyapunov functions, Markov chains, importance sampling, large deviations, rare-event simulation

13 Computing conditional distributions
D. Trenkler
March 1989 **ACM SIGAPL APL Quote Quad**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(43.85 KB) Additional Information: full citation, index terms

14 Statistical location detection with sensor networks
Saikat Ray, Wei Lai, Ioannis Ch. Paschalidis
June 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue SI
Publisher: IEEE Press
Full text available: pdf(502.28 KB) Additional Information: full citation, abstract, references, index terms

The paper develops a systematic framework for designing a stochastic location detection

system with associated performance guarantees using a wireless sensor network. To detect the location of a mobile sensor, the system relies on RF-characteristics of the signal transmitted by the mobile sensor, as it is received by stationary sensors (clusterheads). Location detection is posed as a hypothesis testing problem over a discretized space. Large deviations results enable the characterization of the ...

Keywords: hypothesis testing, information theory, mathematical programming/optimization, sensor networks, stochastic processes

15 Efficient learning of Naive Bayes classifiers under class-conditional classification noise

François Denis, Christophe Nicolas Magnan, Liva Ralaivola

June 2006 **Proceedings of the 23rd international conference on Machine learning ICML '06**

Publisher: ACM Press

Full text available: pdf(305.69 KB) Additional Information: full citation, abstract, references

We address the problem of efficiently learning Naive Bayes classifiers under class-conditional classification noise (CCCN). Naive Bayes classifiers rely on the hypothesis that the distributions associated to each class are product distributions. When data is subject to CCC-noise, these conditional distributions are themselves mixtures of product distributions. We give analytical formulas which makes it possible to identify them from data subject to CCCN. Then, we design a learning algorithm base ...

16 Context-specific Bayesian clustering for gene expression data

Yoseph Barash, Nir Friedman

April 2001 **Proceedings of the fifth annual international conference on Computational biology RECOMB '01**

Publisher: ACM Press

Full text available: pdf(233.32 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent growth in genomic data and measurement of genome-wide expression patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

17 Statistical filtering and subcategorization frame acquisition

Anna Korhonen, Genevieve Gorrell, Diana McCarthy

October 2000 **Proceedings of the 2000 Joint SIGDAT conference on Empirical methods in natural language processing and very large corpora: held in conjunction with the 38th Annual Meeting of the Association for Computational Linguistics - Volume 13**

Publisher: Association for Computational Linguistics

Full text available: pdf(723.19 KB) Additional Information: full citation, abstract, references, citings

Research into the automatic acquisition of subcategorization frames (SCFs) from corpora is starting to produce large-scale computational lexicons which include valuable frequency information. However, the accuracy of the resulting lexicons shows room for improvement. One significant source of error lies in the statistical filtering used by some researchers to remove noise from automatically acquired subcategorization frames. In this paper, we compare three different approaches to filtering out s ...

18 TheoryRep contributions: Theme preservation and the evolution of representation

Keki M. Burjorjee, Jordan B. Pollack
June 2005 **Proceedings of the 2005 workshops on Genetic and evolutionary computation GECCO '05**
Publisher: ACM Press

Full text available: pdf(306.96 KB) Additional Information: full citation, abstract, references, citings, index terms

In his thesis Toussaint calls for a "general project to develop theories on adaptation processes that account for the adaptation of representations". The theory developed in this paper is a contribution to this project. We first define the simple concept of a genotypic theme and define what it means for mutation operators to be theme preserving and theme altering. We use the idea of theme preservation to develop the concept of subrepresentation. Then we develop a theory that illuminates the beha ...

Keywords: evolution of representation, evolutionary algorithms, theme preservation

19 Large-Sample Learning of Bayesian Networks is NP-Hard
David Maxwell Chickering, David Heckerman, Christopher Meek
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press
Full text available: pdf(467.11 KB) Additional Information: full citation, abstract, references, citings

In this paper, we provide new complexity results for algorithms that learn discrete-variable Bayesian networks from data. Our results apply whenever the learning algorithm uses a scoring criterion that favors the simplest structure for which the model is able to represent the generative distribution exactly. Our results therefore hold whenever the learning algorithm uses a consistent scoring criterion and is applied to a sufficiently large dataset. We show that identifying high-scoring structure ...

20 Risk analysis: New simulation methodology for finance: efficient simulation of gamma and variance-gamma processes
Athanassios N. Avramidis, Pierre L'Ecuyer, Pierre-Alexandre Tremblay
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**
Publisher: Winter Simulation Conference
Full text available: pdf(178.40 KB) Additional Information: full citation, abstract, references

We study algorithms for sampling discrete-time paths of a gamma process and a variance gamma process, defined as a Brownian process with random time change obeying a gamma process. The attractive feature of the algorithms is that increments of the processes over longer time scales are assigned to the first sampling coordinates. The algorithms are based on having in explicit form the process' conditional distributions, are similar in spirit to the Brownian bridge sampling algorithms proposed f ...

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The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web Results **1 - 5** of about **7** for **"conditional diversity" and "instrument"**. (**0.17** seconds)

Tip: Try removing quotes from your search to get more results.

Test diversity software testing method and apparatus - Patent ...
A method to **instrument** computer software as in claim 1 by inserting a function call ... to the inserted **instrument** code; a **conditional diversity** calculator, ...
www.freepatentsonline.com/20050081104.html - 58k - Cached - Similar pages

[PDF] The π Measure
File Format: PDF/Adobe Acrobat - View as HTML
hits is denoted by A. The **conditional diversity** is de-. noted by D. The value of the **conditional** ... sity Analyzer in five simple steps: **instrument** source ...
dec.bmth.ac.uk/ESERG/Metrics2004_LBP/Nikolik.pdf - Similar pages

Laboratory-chair of modelling the natural references of time
... under **conditional diversity** optimization // Bull. of Mathemat. ... system "Russia's Freshwater Ecology" as an **instrument** for biological research. ...
www.chronos.msu.ru/lab-kaf/Levich/elev-rukovod.html - 50k - Cached - Similar pages

[PDF] Diversity Analysis
File Format: PDF/Adobe Acrobat - View as HTML
versity Analyzer is not to **instrument** release code. The time. and memory requirements of computing **conditional diversity**. and standard deviation is linear ...
www.vidakquality.com/practice.pdf - Similar pages

[PDF] Test Diversity
File Format: PDF/Adobe Acrobat - View as HTML
comprising of four new measures: **conditional diversity**, data ... the Diversity Analyzer in five simple steps: **instrument** source ...
www.vidakquality.com/theory.pdf - Similar pages
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In order to show you the most relevant results, we have omitted some entries very similar to the 5 already displayed.
If you like, you can repeat the search with the omitted results included.

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"instrument" and "true branch" Search Advanced Search Preferences

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web Results **1 - 10** of about **761** for **"instrument" and "true branch"**. (**0.12** seconds)

Isaiah 25
See more on Baal and the Branch in opposition to the **True Branch**. ... a musical piece or song to be accompanied by an **instrument**: - melody, psalm. ...
www.piney.com/Isaiah.25.html - 91k - Cached - Similar pages

Jusc - Java Unit Test Selection Tool Based on Residual Structural ...
... a **true branch**, a false branch, and a switch-select branch respectively. ... -exclude classNameRegexp: Do not **instrument** classes that match the ...
www.csc.ncsu.edu/faculty/xie/jusc/index.html - 25k - Cached - Similar pages

[PDF] Fault Localization (Part II) Papers studied: –
File Format: PDF/Adobe Acrobat - View as HTML
Insert code ("**instrument** program") to evaluate predicates. ¯. Predicates instrumented:. – At branches: evaluate "**true branch** taken", "false branch taken" ...
www.csd.uwo.ca/courses/CS613a/slides/nFaultLocalization2.pdf - Similar pages

True Vine: Meditations for a Month on John 15:1-16 | Christian ...
It is because we so little live the **true branch** life, because we so little lose ourselves in the ... to use you as the channel and **instrument** of His grace. ...
www.ccel.org/ccel/murray/true_vine.xxxiii.html - 14k - Cached - Similar pages

R o c k H i l l [S C] - Trees for Rock Hill - Pruning Trees
A **true branch** is a stem that originated to the side of, and subordinate to, ... is to always make the final cut with a sharp **instrument** (shovel, saw, axe, ...
www.cityofrockhill.com/TreesForRockHill/pruning.asp - 28k - Cached - Similar pages

Newman Reader - Tracts for the Times - Tract 20
... and so they have the advantage {3} of possessing an **instrument**, which is, ... He has wonderfully preserved our Church as a **true branch** of the Church ...
www.newmanreader.org/works/times/tract20.html - 16k - Cached - Similar pages

[PDF] Dynamic Object Process Graphs
File Format: PDF/Adobe Acrobat
to **instrument** all the constructs that influence control. flow: conditional and unconditional jumps, ... branch **true/branch** false mark conditional. branches. ...
ieeexplore.ieee.org/iel5/10671/33675/01602360.pdf?arnumber=1602360 - Similar pages

[PDF] Evolutionary Testing of Unstructured Programs in the Presence of ...
File Format: PDF/Adobe Acrobat
6, the set of critical branches includes the **true branch** from ... For example 2, if we **instrument**. the fitness function into code, the transformation code ...
ieeexplore.ieee.org/iel5/10689/33749/01607191.pdf?arnumber=1607191 - Similar pages

[PDF] Performance Instrumentation and Compiler Optimizations for MPI ...
File Format: PDF/Adobe Acrobat - View as HTML
how the compiler's ability to automatically **instrument** user code down ... **true branch**, false branch, or cselect. The name of the sub-category is com- ...
icl.cs.utk.edu/news_pub/submissions/iwomp06.pdf - Similar pages

JSTOR: Suretyship Defenses and the Negotiable Instruments Law
"A negotiable **instrument** is discharged:- i. By payment in due course by or on ... who made this uncertain custom into a **true branch** of the common law, ...
links.jstor.org/sici?sici=0017-811X(192505)38%3A7%3C954%3ASDATNI%3E2.0.CO%3B2-0 - Similar pages

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"instrument" and "true branch" Search

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